

AMENDEMENT NO. 2 OCTOBER 2022
TO
IS 4923: 2017 HOLLOW STEEL SECTIONS FOR STRUCTURAL USE —
SPECIFICATION
(Third Revision)

(Page 1, clause 2) — Substitute the following for the existing clause:

‘2 REFERENCES

The standards listed below contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards indicated below:

<i>IS No.</i>	<i>Title</i>
228 (in parts)	Methods of chemical analysis of steel
1387 : 1993	General requirements for the supply of metallurgical materials (<i>second revision</i>)
1608 (Part 1) : 2018/ISO 6892-1: 2016	Metallic materials — Tensile testing: Part 1 Method of test at room temperature (<i>fourth revision</i>)
2062 : 2011	Hot rolled medium and high tensile structural steel (<i>seventh revision</i>)
2633 : 1986	Method of testing uniformity of coating on zinc coated articles
6745 : 1972	Methods for determination of mass of zinc coating on zinc coated iron and steel articles
16732 : 2019	Galvanized structural steel’.

(Page 1, clause 3.4) — Add the following new clause after **3.4**:

‘3.5 Cold Forming — Process in which the main forming is carried out at ambient temperature.

3.6 Hot Forming — Process in which the main forming is carried out at normalizing temperature.’

(Page 2, clause 6.1, last line) — Insert the following at last:

‘They shall be further graded as YSt 210, YSt 240, YSt 310, YSt 355, YSt 420 and YSt 460 depending on the yield strength of the hollow steel section (*See Table 3 and Table 4*).’

(Page 2, clause 7.1) — Substitute the following for the existing:

‘The seamless hollow steel sections shall be manufactured from steel made by any process at discretion of the manufacture which shall show not more than 0.040 percent of sulphur and 0.040

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percent of phosphorus. The welded hollow sections shall be manufactured from hot rolled steel strips conforming to IS 2062. In case of grade Yst 210, it shall be manufactured from hot rolled steel strips with chemical composition and mechanical properties as agreed to between manufacturer and purchaser (until a suitable grade is incorporated in IS 2062).'

(Page 2, clause 9.1) — Substitute the following for the existing:

‘The standard sizes and weights of hollow steel sections with other geometrical properties are given in Table 1 and Table 2. Any other size and thickness mentioned in Table 1 and Table 2 may be supplied subject to agreement between the purchaser and the manufacturer. However, for all such non-standard sizes, the thickness of hollow steel sections shall not be less than the minimum thickness specified for the next higher standard size in Table 1 and Table 2. For all such cases, the mass of the hollow steel section shall be calculated by the formula given in Annex A.

NOTE — For determining the next standard higher size of hollow steel section, depth of section shall be considered. For example, for section of size 68 x 33 mm, the next higher standard size as per Table 2 is 70 x 30 x 2.0, 2.50, 2.90, 3.20, 4.0 and 5.0 mm of which the minimum thickness is 2.0 mm. Therefore, for a non-standard hollow steel section of size 68 x 33 mm, agreed thickness shall not be less than 2.0 mm.’

(Page 3, Fig. 5) — Substitute the following for the existing figure:

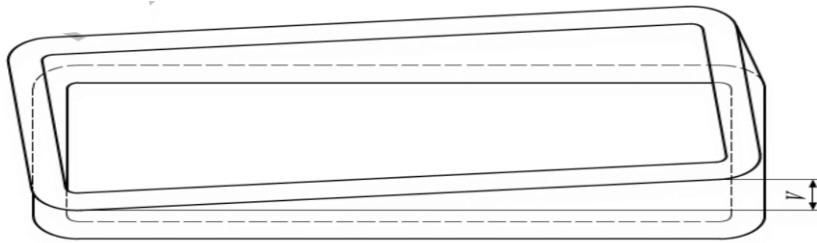


FIG. 5 TOTAL TWIST OF SQUARE OR RECTANGULAR HOLLOW SECTIONS KEY

(Page 3, clause 10.7, Para 3) — Add the following:

‘The deviation from straightness, e , of the total length of a hollow section shall be measured at the point of maximum departure of the section from a straight line connecting its two ends as shown in Fig. 7.’

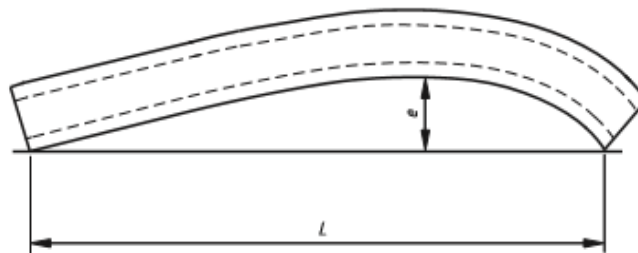


FIG. 7 STRAIGHTNESS MEASUREMENT IN SQUARE OR RECTANGULAR HOLLOW SECTION

(Page 4, clause 11.1) — Substitute the following for the existing:

‘Hollow steel sections may be varnished, painted, oiled or galvanized as per agreement between the purchaser and the manufacturer. In case of galvanizing, mass of coating shall be tested as per IS 6745. The requirement for thickness and mass of coating shall be given in Annex B.’

(Page 4, clause 15.2) — Substitute the following for the existing:

‘When tested in accordance with IS 1608 Part 1, the tensile properties of hot formed sections shall be as shown in Table 3.’

(Page 5, clause 15.2) — Substitute the following for the existing:

‘The yield strength values apply to $R_{p0.2}$ (0.2 percent proof strength), if the yield point stress is not clearly distinctive, otherwise the values apply to the lower yield strength.

Elongation on a gauge length of $5.65\sqrt{A}$ (where, A is the cross-sectional area of test specimen) or test piece of gauge length 50 mm and width 12.5 mm shall be as given in Table 3.’

(Page 5, Table 3) — Substitute the following for the existing table:

Table 3 Tensile Properties of Hot Formed Sections
(Clauses 6.1 and 15.2)

Sl No.	Grade	Yield Strength <i>Min</i> , MPa	Tensile Strength <i>Min</i> , MPa	Elongation Percent on Gauge Length $5.65\sqrt{A}$, <i>Min</i> or Test Piece of Gauge Length 50 mm and Sample Width of 12.5 mm, <i>Min</i>
(1)	(2)	(3)	(4)	(5)
i)	YSt 210	210	330	20
ii)	YSt 240	240	410	15
iii)	YSt 310	310	450	10
iv)	YSt 355	355	490	10
v)	YSt 420	420	500	19
vi)	YSt 460	460	530	17

NOTE — The tensile test piece shall be taken excluding the side of the section on which the weld seam exists.

(Page 5, clause 19.2) — Substitute the following for the existing:

‘When tested in accordance with IS 1608 part 1, the tensile properties of cold formed sections shall be as given in Table 4.

The yield strength values apply to $R_{p0.2}$ (0.2 percent proof strength), if the yield point stress is not clearly distinctive, otherwise the values apply to the lower yield strength.

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Elongation on a gauge length of $5.65\sqrt{A}$ (where, A is the cross-sectional area of test specimen) or test piece of gauge length 50mm and width 12.5mm shall be as given in Table 4.’

(Page 6, Table 4) — Substitute the following for the existing:

Table 4 Tensile Properties of Cold Formed Sections

(Clauses 6.1 and 19.2)

Sl No.	Grade	Yield Strength <i>Min</i> , MPa	Tensile Strength <i>Min</i> , MPa	Elongation Percent on Gauge Length $5.65\sqrt{A}$, <i>Min</i> or Test Piece of Gauge Length 50 mm and Width 12.5 mm, <i>Min</i> , for Sizes	
				(5)	
(1)	(2)	(3)	(4)	under 25.4 mm*	Over 25.4 mm*
i)	YSt 210	210	330	12	20
ii)	YSt 240	240	410	10	15
iii)	YSt 310	310	450	8	10
iv)	YSt 355	355	490	8	10
v)	YSt 420	420	500	19	19
vi)	YSt 460	460	530	17	17

NOTES

- 1 *The value shall be applicable for the smaller side of the rectangular section.
- 2 Stress relief annealing at more than 580°C or for over one hour may lead to deterioration of the mechanical properties.

[Page 7, Annex A, (also see Amendment No.1)] — Substitute the following for the existing note:

‘NOTE — Letter symbols denoting various dimensions are the same as those used in Tables 1 and 2.’

(Page 8 and 9, Table 1) — Substitute the following for the existing Table:

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Table 1 Dimensions and Properties of Square Hollow Sections

(Clause 8.1 and Note in Annex A)

Designation	Depth	Width	Thickness	Weight	Area of Section	Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
Size	D	B	t						
mm	mm	mm	mm	kg/m	cm ²	cm ⁴	cm	cm ³	cm ³
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20x20x2	20	20	2.00	1.05	1.34	0.69	0.72	0.69	0.88
25x25x2	25	25	2.00	1.36	1.74	1.48	0.92	1.19	1.47
25x25x2.5	25	25	2.50	1.64	2.09	1.69	0.90	1.35	1.71
25x25x2.6	25	25	2.60	1.69	2.16	1.72	0.89	1.38	1.76
25x25x3	25	25	3.00	1.89	2.41	1.84	0.87	1.47	1.91
25x25x3.2	25	25	3.20	1.98	2.53	1.89	0.86	1.51	1.98
30x30x2	30	30	2.00	1.68	2.14	2.72	1.13	1.81	2.21
30x30x2.5	30	30	2.50	2.03	2.59	3.16	1.10	2.10	2.61
30x30x2.6	30	30	2.60	2.10	2.68	3.23	1.10	2.15	2.68
30x30x3	30	30	3.00	2.36	3.01	3.50	1.08	2.34	2.96
30x30x3.2	30	30	3.20	2.49	3.17	3.62	1.07	2.41	3.08
32x32x2	32	32	2.00	1.80	2.30	3.36	1.21	2.10	2.54
32x32x2.5	32	32	2.50	2.19	2.79	3.92	1.19	2.45	3.02
32x32x2.6	32	32	2.60	2.26	2.88	4.02	1.18	2.51	3.11
32x32x3	32	32	3.00	2.55	3.25	4.38	1.16	2.74	3.44
32x32x3.2	32	32	3.20	2.69	3.42	4.54	1.15	2.84	3.59
32x32x4	32	32	4.00	3.19	4.07	5.02	1.11	3.14	4.11
35x35x2	35	35	2.00	1.99	2.54	4.51	1.33	2.58	3.09
35x35x2.6	35	35	2.60	2.51	3.20	5.43	1.30	3.10	3.81
35x35x3.2	35	35	3.20	2.99	3.81	6.18	1.27	3.53	4.42
35x35x4	35	35	4.00	3.57	4.55	6.93	1.23	3.96	5.11
38x38x2	38	38	2.00	2.18	2.78	5.88	1.46	3.10	3.70
38x38x2.6	38	38	2.60	2.75	3.51	7.14	1.43	3.76	4.57
38x38x3.2	38	38	3.20	3.29	4.19	8.18	1.40	4.30	5.34
38x38x4	38	38	4.00	3.95	5.03	9.26	1.36	4.87	6.22
40x40x2	40	40	2.00	2.31	2.94	6.94	1.54	3.47	4.13
40x40x2.6	40	40	2.60	2.92	3.72	8.45	1.51	4.22	5.12
40x40x3	40	40	3.00	3.30	4.21	9.32	1.49	4.66	5.72
40x40x3.2	40	40	3.20	3.49	4.45	9.72	1.48	4.86	6.00
40x40x4	40	40	4.00	4.20	5.35	11.07	1.44	5.54	7.01
45x45x2	45	45	2.00	2.62	3.34	10.12	1.74	4.50	5.32
45x45x2.6	45	45	2.60	3.33	4.24	12.42	1.71	5.52	6.64
45x45x2.9	45	45	2.90	3.66	4.67	13.45	1.70	5.98	7.25
45x45x3	45	45	3.00	3.77	4.81	13.78	1.69	6.12	7.44
45x45x3.2	45	45	3.20	3.99	5.09	14.41	1.68	6.40	7.82
45x45x4	45	45	4.00	4.83	6.15	16.61	1.64	7.38	9.22
45x45x4.5	45	45	4.5	5.31	6.77	17.74	1.62	7.88	9.99
49.5x49.5x2	49.5	49.5	2.00	2.90	3.70	13.70	1.93	5.54	6.52
49.5x49.5x2.6	49.5	49.5	2.60	3.69	4.70	16.91	1.90	6.83	8.16
49.5x49.5x3	49.5	49.5	3.00	4.20	5.35	18.84	1.88	7.61	9.18
49.5x49.5x3.2	49.5	49.5	3.20	4.45	5.66	19.74	1.87	7.98	9.67
49.5x49.5x4	49.5	49.5	4.00	5.39	6.87	22.95	1.83	9.27	11.46
49.5x49.5x5	49.5	49.5	5.00	6.48	8.26	26.11	1.78	10.55	13.38
50x50x2	50	50	2.00	2.93	3.74	14.15	1.95	5.66	6.66

Table 1 (Continued)

50x50x2.5	50	50	2.50	3.60	4.59	16.94	1.92	6.78	8.07
50x50x3.2	50	50	3.20	4.50	5.73	20.40	1.89	8.16	9.89
50x50x4	50	50	4.00	5.45	6.95	23.74	1.85	9.49	11.73
50x50x5	50	50	5.00	6.56	8.36	27.04	1.80	10.82	13.70
60x60x2	60	60	2.00	3.56	4.54	25.14	2.35	8.38	9.79
60x60x2.5	60	60	2.50	4.39	5.59	30.34	2.33	10.11	11.93
60x60x3	60	60	3.00	5.19	6.61	35.13	2.31	11.71	13.95
60x60x4	60	60	4.00	6.71	8.55	43.55	2.26	14.52	17.64
60x60x5	60	60	5.00	8.13	10.36	50.49	2.21	16.83	20.88
60x60x6	60	60	6.00	9.45	12.03	56.07	2.16	18.69	23.67
60x60x6.3	60	60	6.30	9.82	12.51	57.48	2.14	19.16	24.43
63.5x63.5x2.5	63.5	63.5	2.50	4.66	5.94	36.32	2.47	11.44	13.46
63.5x63.5x3.2	63.5	63.5	3.20	5.85	7.46	44.35	2.44	13.97	16.65
63.5x63.5x3.6	63.5	63.5	3.60	6.51	8.29	48.55	2.42	15.29	18.36
63.5x63.5x4.5	63.5	63.5	4.50	7.93	10.10	57.00	2.38	17.95	21.93
70x70x2.5	70	70	2.50	5.17	6.59	49.41	2.74	14.12	16.54
70x70x3	70	70	3.00	6.13	7.81	57.53	2.71	16.44	19.41
70x70x4	70	70	4.00	7.97	10.15	72.12	2.67	20.61	24.75
70x70x5	70	70	5.00	9.70	12.36	84.63	2.62	24.18	29.55
70x70x6	70	70	6.00	11.33	14.43	95.17	2.57	27.19	33.83
70x70x6.3	70	70	6.30	11.80	15.03	97.97	2.55	27.99	35.01
72x72x2.5	72	72	2.50	5.33	6.79	53.99	2.82	15.00	17.55
72x72x3	72	72	3.00	6.32	8.05	62.92	2.80	17.48	20.62
72x72x3.2	72	72	3.20	6.71	8.54	66.32	2.79	18.42	21.80
72x72x4	72	72	4.00	8.22	10.47	79.03	2.75	21.95	26.32
72x72x4.8	72	72	4.80	9.66	12.31	90.31	2.71	25.09	30.48
72x72x5	72	72	5.00	10.01	12.76	92.91	2.70	25.81	31.47
75x75x3	75	75	3.00	6.60	8.41	71.62	2.92	19.10	22.48
75x75x3.2	75	75	3.20	7.01	8.93	75.53	2.91	20.14	23.79
75x75x3.6	75	75	3.60	7.81	9.95	83.06	2.89	22.15	26.32
75x75x4.5	75	75	4.50	9.55	12.17	98.55	2.85	26.28	31.68
80x80x3	80	80	3.00	7.07	9.01	87.84	3.12	21.96	25.78
80x80x4	80	80	4.00	9.22	11.75	111.04	3.07	27.76	33.07
80x80x5	80	80	5.00	11.27	14.36	131.44	3.03	32.86	39.73
80x80x6	80	80	6.00	13.21	16.83	149.18	2.98	37.29	45.78
80x80x6.3	80	80	6.30	13.78	17.55	154.00	2.96	38.50	47.48
80x80x8	80	80	8.00	16.79	21.39	177.19	2.88	44.30	56.11
88.9x88.9x3.0	88.9	88.9	3.00	7.91	10.08	122.46	3.49	27.55	32.20
88.9x88.9x3.2	88.9	88.9	3.20	8.40	10.71	129.40	3.48	29.11	34.11
88.9x88.9x3.6	88.9	88.9	3.60	9.38	11.95	142.83	3.46	32.13	37.85
88.9x88.9x4.5	88.9	88.9	4.50	11.52	14.67	170.97	3.41	38.46	45.85
90x90x3.0	90	90	3.00	8.01	10.21	127.28	3.53	28.29	33.04
90x90x4.0	90	90	4.00	10.48	13.35	161.92	3.48	35.98	42.58
90x90x5.0	90	90	5.00	12.84	16.36	192.93	3.43	42.87	51.41
90x90x6.0	90	90	6.00	15.10	19.23	220.48	3.39	48.99	59.54
90x90x6.3	90	90	6.30	15.76	20.07	228.09	3.37	50.69	61.84
90x90x8.0	90	90	8.00	19.31	24.59	265.78	3.29	59.06	73.77
91.5x91.5x3	91.5	91.5	3.00	8.16	10.39	134.06	3.59	29.30	34.21

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Table 1 (*Continued*)

91.5x91.5x3.6	91.5	91.5	3.60	9.67	12.32	156.49	3.56	34.21	40.24
91.5x91.5x4	91.5	91.5	4.00	10.67	13.59	170.68	3.54	37.31	44.11
91.5x91.5x4.5	91.5	91.5	4.50	11.88	15.14	187.57	3.52	41.00	48.79
91.5x91.5x4.8	91.5	91.5	4.80	12.60	16.05	197.27	3.51	43.12	51.51
100x100x3	100	100	3.00	8.96	11.41	177.05	3.94	35.41	41.21
100x100x4	100	100	4.00	11.73	14.95	226.35	3.89	45.27	53.30
100x100x5	100	100	5.00	14.41	18.36	271.10	3.84	54.22	64.59
100x100x6	100	100	6.00	16.98	21.63	311.47	3.79	62.29	75.09
100x100x6.3	100	100	6.30	17.73	22.59	322.76	3.78	64.55	78.10
100x100x8	100	100	8.00	21.82	27.79	379.77	3.70	75.95	93.82
100x100x10	100	100	10.00	26.24	33.43	432.60	3.60	86.52	109.59
100x100x12	100	100	12.00	30.25	38.54	471.27	3.50	94.25	122.53
100x100x12.5	100	100	12.50	31.19	39.73	478.87	3.47	95.77	125.34
113.5x113.5x3	113.5	113.5	3.00	10.23	13.03	262.73	4.49	46.30	53.66
113.5x113.5x4	113.5	113.5	4.00	13.43	17.11	337.67	4.44	59.50	69.66
113.5x113.5x4.5	113.5	113.5	4.50	14.99	19.10	372.88	4.42	65.71	77.32
113.5x113.5x4.8	113.5	113.5	4.80	15.92	20.28	393.30	4.40	69.30	81.81
113.5x113.5x5	113.5	113.5	5.00	16.53	21.06	406.63	4.39	71.65	84.76
113.5x113.5x5.4	113.5	113.5	5.40	17.74	22.60	432.58	4.38	76.23	90.54
120x120x3	120	120	3.00	10.84	13.81	312.35	4.76	52.06	60.23
120x120x4	120	120	4.00	14.25	18.15	402.28	4.71	67.05	78.32
120x120x5	120	120	5.00	17.55	22.36	485.47	4.66	80.91	95.44
120x120x6	120	120	6.00	20.75	26.43	562.16	4.61	93.69	111.61
120x120x6.3	120	120	6.30	21.69	27.63	583.92	4.60	97.32	116.27
120x120x8	120	120	8.00	26.84	34.19	696.82	4.51	116.14	141.13
120x120x10	120	120	10.00	32.52	41.43	807.91	4.42	134.65	167.01
120x120x12	120	120	12.00	37.79	48.14	897.05	4.32	149.51	189.38
120x120x12.5	120	120	12.50	39.04	49.73	916.09	4.29	152.68	194.43
125x125x3	125	125	3.00	11.31	14.41	354.50	4.96	56.72	65.55
125x125x4.5	125	125	4.50	16.62	21.17	505.83	4.89	80.93	94.84
125x125x5	125	125	5.00	18.34	23.36	552.62	4.86	88.42	104.09
125x125x6	125	125	6.00	21.69	27.63	640.89	4.82	102.54	121.86
132x132x4	132	132	4.00	15.75	20.07	542.25	5.20	82.16	95.64
132x132x4.5	132	132	4.50	17.61	22.43	600.45	5.17	90.98	106.37
132x132x4.8	132	132	4.80	18.71	23.83	634.39	5.16	96.12	112.68
132x132x5	132	132	5.00	19.43	24.76	656.62	5.15	99.49	116.83
132x132x5.4	132	132	5.40	20.88	26.60	700.11	5.13	106.08	125.01
132x132x6	132	132	6.00	23.01	29.31	762.98	5.10	115.60	136.97
140x140x4	140	140	4.00	16.76	21.35	651.6	5.52	93.09	108.15
140x140x5	140	140	5.00	20.69	26.36	790.6	5.48	112.94	132.30
140x140x6	140	140	6.00	24.52	31.23	920.4	5.43	131.49	155.32
140x140x6.3	140	140	6.30	25.65	32.67	957.7	5.41	136.81	162.01
140x140x8	140	140	8.00	31.87	40.59	1153.9	5.33	164.85	198.04
140x140x10	140	140	10.00	38.80	49.43	1354.1	5.23	193.44	236.43
140x140x12	140	140	12.00	45.32	57.74	1522.8	5.14	217.54	270.62
140x140x12.5	140	140	12.50	46.89	59.73	1560.2	5.11	222.89	278.53
140x140x16	140	140	16	57.13	72.78	1773.3	4.94	253.32	326.86
150x150x4	150	150	4.00	18.01	22.95	807.82	5.93	107.71	124.86

Table 2 (Continued)

150x150x5	150	150	5.00	22.26	28.36	982.12	5.89	130.95	152.97
150x150x6	150	150	6.00	26.40	33.63	1146	5.84	152.79	179.87
150x150x6.3	150	150	6.30	27.63	35.19	1193	5.82	159.07	187.71
150x150x7	150	150	7.00	30.44	38.78	1299	5.79	173.26	205.57
150x150x8	150	150	8.00	34.38	43.79	1443	5.74	192.40	230.09
150x150x10	150	150	10.00	41.94	53.43	1701	5.64	226.83	275.64
150x150x12	150	150	12.00	49.09	62.54	1923	5.54	256.35	316.64
150x150x12.5	150	150	12.50	50.81	64.73	1972	5.52	262.99	326.20
150x150x16	150	150	16.00	62.15	79.18	2263	5.35	301.73	385.48
160x160x4	160	160	4	19.27	24.55	987	6.34	123.40	142.78
160x160x5	160	160	5	23.83	30.36	1202	6.29	150.29	175.15
160x160x6	160	160	6	28.29	36.03	1405	6.25	175.69	206.23
160x160x6.3	160	160	6.3	29.60	37.71	1464	6.23	183.01	215.30
160x160x8	160	160	8	36.89	46.99	1777	6.15	222.09	264.55
160x160x10	160	160	10	45.08	57.43	2103	6.05	262.88	317.85
160x160x12	160	160	12	52.86	67.34	2387	5.95	298.35	366.27
160x160x12.5	160	160	12.5	54.74	69.73	2451	5.93	306.42	377.62
160x160x16	160	160	16	67.18	85.58	2835	5.76	354.39	448.89
180x180x4	180	180	4.00	21.78	27.75	1422	7.16	157.97	182.20
180x180x5	180	180	5.00	26.97	34.36	1737	7.11	192.99	224.01
180x180x6	180	180	6.00	32.05	40.83	2037	7.06	226.28	264.34
180x180x6.3	180	180	6.30	33.56	42.75	2123	7.05	235.94	276.15
180x180x8	180	180	8.00	41.91	53.39	2591	6.97	287.86	340.66
180x180x10	180	180	10.00	51.36	65.43	3087	6.87	342.99	411.27
180x180x12	180	180	12.00	60.40	76.94	3528	6.77	391.96	476.31
180x180x12.5	180	180	12.50	62.59	79.73	3629	6.75	403.27	491.71
180x180x16	180	180	16.00	77.23	98.38	4252	6.57	472.49	590.13
200x200x4	200	200	4.00	24.29	30.95	1968	7.97	196.81	226.43
200x200x5	200	200	5.00	30.11	38.36	2410	7.93	241.01	278.86
200x200x6	200	200	6.00	35.82	45.63	2833	7.88	283.27	329.65
200x200x6.3	200	200	6.30	37.52	47.79	2956	7.86	295.58	344.57
200x200x8	200	200	8.00	46.94	59.79	3622	7.78	362.16	426.36
200x200x10	200	200	10.00	57.64	73.43	4338	7.69	433.76	516.69
200x200x12	200	200	12.00	67.93	86.54	4984	7.59	498.36	600.76
200x200x12.5	200	200	12.50	70.44	89.73	5134	7.56	513.45	620.81
200x200x16	200	200	16.00	87.27	111.18	6076	7.39	607.64	750.56
220x220x5	220	220	5.00	33.25	42.36	3238	8.74	294.37	339.72
220x220x6	220	220	6.00	39.59	50.43	3813	8.70	346.67	402.16
220x220x6.3	220	220	6.30	41.47	52.83	3981	8.68	361.95	420.54
220x220x8	220	220	8.00	51.96	66.19	4895	8.60	445.00	521.67
220x220x10	220	220	10.00	63.92	81.43	5887	8.50	535.20	634.11
220x220x12	220	220	12.00	75.47	96.14	6793	8.41	617.55	739.60
220x220x12.5	220	220	12.50	78.29	99.73	7006	8.38	636.95	764.90
220x220x16	220	220	16.00	97.32	123.98	8358	8.21	759.84	930.20
250x250x5	250	250	5.00	37.96	48.36	4805	9.97	384.40	442.25
250x250x6	250	250	6.00	45.24	57.63	5672	9.92	453.76	524.43
250x250x6.3	250	250	6.30	47.41	60.39	5926	9.91	474.09	548.68
250x250x8	250	250	8.00	59.50	75.79	7316	9.82	585.25	682.64

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Table 1 (Concluded)

250x250x10	250	250	10.00	73.34	93.43	8842	9.73	707.35	832.74
250x250x12	250	250	12.00	86.77	110.54	10254	9.63	820.34	974.87
250x250x12.5	250	250	12.50	90.06	114.73	10590	9.61	847.19	1009
250x250x16	250	250	16.00	112.39	143.18	12751	9.44	1020	1236
260x260x6	260	260	6.00	47.13	60.03	6405	10.33	493	569
260x260x6.3	260	260	6.30	49.39	62.91	6693	10.31	515	595
260x260x8	260	260	8.00	62.01	78.99	8272	10.23	636	741
260x260x10	260	260	10.00	76.48	97.43	10011	10.14	770	905
260x260x12	260	260	12.00	90.54	115.34	11626	10.04	894	1060
260x260x12.5	260	260	12.50	93.99	119.73	12011	10.02	924	1098
260x260x16	260	260	16.00	117.42	149.58	14500	9.85	1115	1347
300x300x6	300	300	6.00	54.66	69.63	9964	11.96	664.24	764.21
300x300x6.3	300	300	6.30	57.30	72.99	10419	11.95	694.60	800.04
300x300x8	300	300	8.00	72.06	91.79	12925	11.87	861.67	998.91
300x300x10	300	300	10.00	89.04	113.43	15714	11.77	1048	1224
300x300x12	300	300	12.00	105.61	134.54	18334	11.67	1222	1439
300x300x12.5	300	300	12.50	109.69	139.73	18964	11.65	1264	1491
300x300x16	300	300	16.00	137.51	175.18	23088	11.48	1539	1841
350x350x8	350	350	8.00	84.62	107.79	20850	13.91	1191	1375
350x350x10	350	350	10.00	104.74	133.43	25454	13.81	1455	1690
350x350x12	350	350	12.00	124.45	158.54	29824	13.72	1704	1993
350x350x12.5	350	350	12.50	129.31	164.73	30881	13.69	1765	2067
350x350x16	350	350	16.00	162.63	207.18	37886	13.52	2165	2566
400x400x8	400	400	8	97.18	123.79	31490	15.95	1575	1811
400x400x10	400	400	10.00	120.44	153.43	38561	15.85	1928	2231
400x400x12	400	400	12.00	143.29	182.54	45324	15.76	2266	2637
400x400x12.5	400	400	12.50	148.94	189.73	46967	15.73	2348	2737
400x400x16	400	400	16.00	187.75	239.18	57946	15.57	2897	3411

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(Page 10 and 11, Table 2) — Substitute the following for the existing:

Table 2 Dimensions and Properties of Rectangular Hollow Sections
(Clause 8.1 and Note in Annex A)

Designation/ Size	Dep th	Wid th	Thickn ess	Weight	Area of Section	Moment of Inertia about		Radius of Gyration about		Elastic Modulus about		Plastic Modulus about	
	D	B	t			X-X	Y-Y	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y
mm	mm	mm	mm	kg/m	cm ²	cm ³	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
40x20x2.0	40	20	2.0	1.68	2.14	4.05	1.34	1.38	0.79	2.02	1.34	2.61	1.60
40x20x2.5	40	20	2.5	2.03	2.59	4.69	1.54	1.35	0.77	2.35	1.54	3.09	1.88
40x20x3.0	40	20	3.0	2.36	3.01	5.21	1.68	1.32	0.75	2.60	1.68	3.50	2.12
50x25x2.0	50	25	2.0	2.15	2.74	8.38	2.81	1.75	1.01	3.35	2.25	4.26	2.62
50x25x2.5	50	25	2.5	2.62	3.34	9.89	3.28	1.72	0.99	3.95	2.62	5.10	3.12
50x25x2.9	50	25	2.9	2.98	3.80	10.93	3.60	1.70	0.97	4.37	2.88	5.72	3.48
50x25x3.2	50	25	3.2	3.24	4.13	11.63	3.80	1.68	0.96	4.65	3.04	6.14	3.73
50x25x4.0	50	25	4.0	3.88	4.95	13.13	4.23	1.63	0.92	5.25	3.38	7.13	4.29
50x30x2.0	50	30	2.0	2.31	2.94	9.54	4.29	1.80	1.21	3.81	2.86	4.74	3.33
50x30x2.5	50	30	2.5	2.82	3.59	11.30	5.05	1.77	1.19	4.52	3.37	5.70	3.98
50x30x3.0	50	30	3.0	3.30	4.21	12.83	5.70	1.75	1.16	5.13	3.80	6.57	4.58
50x30x4.0	50	30	4.0	4.20	5.35	15.25	6.69	1.69	1.12	6.10	4.46	8.05	5.58
66x33x2.0	66	33	2.0	2.90	3.70	20.37	6.90	2.35	1.37	6.17	4.18	7.73	4.77
66x33x2.6	66	33	2.60	3.69	4.70	25.15	8.43	2.31	1.34	7.62	5.11	9.68	5.94
66x33x2.9	66	33	2.9	4.07	5.19	27.33	9.12	2.29	1.33	8.28	5.53	10.59	6.49
66x33x3.6	66	33	3.6	4.93	6.28	31.87	10.52	2.25	1.29	9.66	6.37	12.56	7.65
66x33x4.0	66	33	4.0	5.39	6.87	34.13	11.20	2.23	1.28	10.34	6.79	13.58	8.26
66x33x4.5	66	33	4.5	5.95	7.58	36.64	11.93	2.20	1.25	11.10	7.23	14.76	8.94
60x40x2.0	60	40	2.0	2.93	3.74	18.41	9.83	2.22	1.62	6.14	4.92	7.47	5.65
60x40x2.5	60	40	2.5	3.60	4.59	22.07	11.74	2.19	1.60	7.36	5.87	9.06	6.84
60x40x2.9	60	40	2.9	4.12	5.25	24.74	13.11	2.17	1.58	8.25	6.56	10.24	7.73
60x40x3.0	60	40	3.0	4.25	5.41	25.38	13.44	2.17	1.58	8.46	6.72	10.53	7.94
60x40x4.0	60	40	4.0	5.45	6.95	30.99	16.28	2.11	1.53	10.33	8.14	13.16	9.89
60x40x5.0	60	40	5.0	6.56	8.36	35.33	18.43	2.06	1.48	11.78	9.21	15.38	11.52
70x30x2.0	70	30	2.0	2.93	3.74	22.22	5.86	2.44	1.25	6.35	3.91	8.08	4.45
70x30x2.5	70	30	2.5	3.60	4.59	26.62	6.95	2.41	1.23	7.61	4.63	9.79	5.36
70x30x2.9	70	30	2.9	4.12	5.25	29.82	7.72	2.38	1.21	8.52	5.14	11.07	6.04
70x30x3.2	70	30	3.2	4.50	5.73	32.04	8.24	2.37	1.20	9.15	5.49	11.98	6.51
70x30x4.0	70	30	4.0	5.45	6.95	37.23	9.42	2.31	1.16	10.64	6.28	14.19	7.66
70x50x2.0	70	50	2.0	3.56	4.54	31.48	18.76	2.63	2.03	8.99	7.50	10.80	8.58
70x50x2.5	70	50	2.5	4.39	5.59	38.01	22.59	2.61	2.01	10.86	9.04	13.16	10.45
70x50x3.2	70	50	3.2	5.50	7.01	46.33	27.42	2.57	1.98	13.24	10.97	16.25	12.88
70x50x4.0	70	50	4.0	6.71	8.55	54.67	32.22	2.53	1.94	15.62	12.89	19.47	15.41
70x50x5.0	70	50	5.0	8.13	10.36	63.46	37.20	2.48	1.90	18.13	14.88	23.05	18.20
80x40x2.0	80	40	2.0	3.56	4.54	37.36	12.72	2.87	1.67	9.34	6.36	11.61	7.17
80x40x2.5	80	40	2.5	4.39	5.59	45.11	15.26	2.84	1.65	11.28	7.63	14.14	8.72
80x40x2.9	80	40	2.9	5.03	6.41	50.87	17.11	2.82	1.63	12.72	8.56	16.07	9.88
80x40x3.0	80	40	3.0	5.19	6.61	52.25	17.56	2.81	1.63	13.06	8.78	16.54	10.16
80x40x3.2	80	40	3.2	5.50	7.01	54.94	18.41	2.80	1.62	13.74	9.21	17.46	10.71

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Table 2 (Continued)

80x40x4.0	80	40	4.0	6.71	8.55	64.79	21.49	2.75	1.59	16.20	10.74	20.91	12.77
80x40x5.0	80	40	5.0	8.13	10.36	75.11	24.59	2.69	1.54	18.78	12.30	24.73	15.02
80x50x2.0	80	50	2.0	3.88	4.94	43.44	21.06	2.97	2.07	10.86	8.43	13.17	9.54
80x50x2.5	80	50	2.5	4.78	6.09	52.62	25.41	2.94	2.04	13.15	10.17	16.08	11.64
80x50x3.0	80	50	3.0	5.66	7.21	61.15	29.42	2.91	2.02	15.29	11.77	18.85	13.62
80x50x4.0	80	50	4.0	7.34	9.35	76.36	36.46	2.86	1.97	19.09	14.59	23.95	17.25
80x50x4.5	80	50	4.5	8.14	10.37	83.06	39.52	2.83	1.95	20.77	15.81	26.28	18.90
80x50x5.0	80	50	5.0	8.92	11.36	89.19	42.29	2.80	1.93	22.30	16.92	28.48	20.45
80x60x2.0	80	60	2.0	4.19	5.34	49.53	31.87	3.05	2.44	12.38	10.62	14.73	12.11
80x60x2.5	80	60	2.5	5.17	6.59	60.13	38.61	3.02	2.42	15.03	12.87	18.02	14.81
80x60x3.0	80	60	3.0	6.13	7.81	70.05	44.89	3.00	2.40	17.51	14.96	21.16	17.37
80x60x4.0	80	60	4.0	7.97	10.15	87.92	56.12	2.94	2.35	21.98	18.71	26.99	22.12
80x60x5.0	80	60	5.0	9.70	12.36	103.28	65.66	2.89	2.31	25.82	21.89	32.23	26.38
90x50x2.0	90	50	2.0	4.19	5.34	57.88	23.37	3.29	2.09	12.86	9.35	15.74	10.50
90x50x2.5	90	50	2.5	5.17	6.59	70.26	28.24	3.27	2.07	15.61	11.29	19.25	12.82
90x50x3.0	90	50	3.0	6.13	7.81	81.85	32.74	3.24	2.05	18.19	13.10	22.60	15.03
90x50x4.0	90	50	4.0	7.97	10.15	102.71	40.71	3.18	2.00	22.82	16.28	28.82	19.09
90x50x5.0	90	50	5	9.70	12.36	120.60	47.37	3.12	1.96	26.80	18.95	34.41	22.70
96x48x2.0	96	48	2.0	4.32	5.50	66.04	22.59	3.47	2.03	13.76	9.41	17.00	10.52
96x48x2.5	96	48	2.5	5.33	6.79	80.23	27.29	3.44	2.00	16.71	11.37	20.80	12.85
96x48x3.2	96	48	3.2	6.71	8.54	98.61	33.28	3.40	1.97	20.54	13.87	25.85	15.91
96x48x4	96	48	4.0	8.22	10.47	17.54	39.32	3.35	1.94	24.49	16.38	31.20	19.14
96x48x4.8	96	48	4.8	9.66	12.31	134.35	44.55	3.30	1.90	27.99	18.56	36.13	22.07
100x40x2.5	100	40	2.5	5.17	6.59	79.32	18.78	3.47	1.69	15.86	9.39	20.23	10.59
100x40x3.0	100	40	3.0	6.13	7.81	92.34	21.67	3.44	1.67	18.47	10.84	23.75	12.38
100x40x4.0	100	40	4.0	7.97	10.15	115.70	26.69	3.38	1.62	23.14	13.35	30.26	15.65
100x40x5.0	100	40	5.0	9.70	12.36	135.60	30.76	3.31	1.58	27.12	15.38	36.09	18.52
100x50x2.5	100	50	2.5	5.57	7.09	91.20	31.06	3.59	2.09	18.24	12.42	22.67	14.01
100x50x3.2	100	50	3.2	7.01	8.93	112.29	37.95	3.55	2.06	22.46	15.18	28.20	17.37
100x50x4.0	100	50	4.0	8.59	10.95	134.14	44.95	3.50	2.03	26.83	17.98	34.10	20.93
100x60x2.5	100	60	2.5	5.96	7.59	103.09	46.88	3.69	2.49	20.62	15.63	25.11	17.68
100x60x3.0	100	60	3.0	7.07	9.01	120.57	54.65	3.66	2.46	24.11	18.22	29.57	20.79
100x60x4.0	100	60	4.0	9.22	11.75	152.58	68.68	3.60	2.42	30.52	22.89	37.94	26.60
100x60x5.0	100	60	5.0	11.27	14.36	180.77	80.83	3.55	2.37	36.15	26.94	45.59	31.88
100x60x6.0	100	60	6.0	13.21	16.83	205.30	91.20	3.49	2.33	41.06	30.40	52.53	36.63
100x60x6.3	100	60	6.3	13.78	17.55	211.97	93.99	3.48	2.31	42.39	31.33	54.48	37.96
100x80x2.5	100	80	2.5	6.74	8.59	126.86	90.17	3.84	3.24	25.37	22.54	29.98	25.77
100x80x3.0	100	80	3.0	8.01	10.21	148.81	105.64	3.82	3.22	29.76	26.41	35.39	30.40
100x80x4.0	100	80	4.0	10.48	13.35	189.47	134.17	3.77	3.17	37.89	33.54	45.62	39.15
100x80x5.0	100	80	5.0	12.84	16.36	225.94	159.61	3.72	3.12	45.19	39.90	55.09	47.23
100x80x6.0	100	80	6.0	15.10	19.23	258.39	182.10	3.67	3.08	51.68	45.53	63.81	54.66
100x80x6.3	100	80	6.3	15.76	20.07	267.36	188.30	3.65	3.06	53.47	47.08	66.29	56.77
120x60x2.5	120	60	2.5	6.74	8.59	161.23	55.15	4.33	2.53	26.87	18.38	33.20	20.56
120x60x3.0	120	60	3.0	8.01	10.21	189.12	64.40	4.30	2.51	31.52	21.47	39.17	24.21
120x60x4.0	120	60	4.0	10.48	13.35	240.74	81.25	4.25	2.47	40.12	27.08	50.48	31.08
120x60x5.0	120	60	5.0	12.48	16.36	286.97	95.99	4.19	2.42	47.83	32.00	60.94	37.38
120x60x6.0	120	60	6.0	15.10	19.23	328.01	108.77	4.13	2.38	54.67	36.26	70.57	43.11

Amendment No. 2 to IS 4923 : 2017

Table 2 (Continued)

120x60x6.3	120	60	6.3	15.76	20.07	339.34	112.24	4.11	2.36	56.56	37.41	73.29	44.73
120x60x8.0	120	60	8.0	19.31	24.59	395.25	128.89	4.01	2.29	65.87	42.96	87.37	52.96
120x80x3.0	120	80	3.0	8.96	11.41	230.20	123.43	4.49	3.29	38.37	30.86	46.19	35.02
120x80x4.0	120	80	4.0	11.73	14.95	294.59	157.29	4.44	3.24	49.10	39.32	59.76	45.23
120x80x5.0	120	80	5.0	14.41	18.36	353.14	187.78	4.39	3.20	58.86	46.94	72.44	54.73
120x80x6.0	120	80	6.0	16.98	2.63	406.06	215.03	4.33	3.15	67.68	53.76	84.25	63.54
120x80x6.3	120	80	6.3	17.73	22.59	420.87	222.60	4.32	3.14	70.14	55.65	87.62	66.05
120x80x8.0	120	80	8.0	21.82	27.79	495.77	260.48	4.22	3.06	82.63	65.12	105.29	79.15
122x61x2.5	122	61	2.5	6.86	8.74	169.74	58.09	4.41	2.58	27.83	19.05	34.36	21.28
122x61x3.0	122	61	3.0	8.16	10.39	199.18	67.86	4.38	2.56	32.65	22.25	40.56	25.07
122x61x3.6	122	61	3.6	9.67	12.32	232.61	78.83	4.34	2.53	38.13	25.84	47.71	29.42
122x61x4.0	122	61	4.0	10.67	13.59	253.76	85.69	4.32	2.51	41.60	28.10	52.30	32.21
122x61x4.5	122	61	4.5	11.88	15.14	278.94	93.78	4.29	2.49	45.73	30.75	57.84	35.55
122x61x5.0	122	61	5.0	13.08	16.66	302.75	101.35	4.26	2.47	49.63	33.23	63.17	38.76
122x61x5.4	122	61	5.4	14.01	17.85	320.83	107.03	4.24	2.45	52.60	35.09	67.28	41.22
127x50x3.0	127	50	3.0	6.62	8.44	166.16	38.68	4.44	2.14	26.17	15.47	33.15	17.22
127x50x3.6	127	50	3.6	7.87	10.03	194.74	45.02	4.41	2.12	30.67	18.01	39.10	20.24
127x50x4.6	127	50	4.6	11.69	14.89	276.33	62.46	4.31	2.05	43.52	24.98	56.65	29.03
140x80x4.0	140	80	4.0	12.99	16.55	429.60	180.42	5.10	3.30	61.37	45.10	75.51	51.31
140x80x5.0	140	80	5.0	15.98	20.36	517.06	215.94	5.04	3.26	73.87	53.99	91.80	62.23
140x80x6.0	140	80	6.0	18.87	24.03	597.00	247.96	4.98	3.21	85.29	61.99	107.08	72.42
140x80x6.3	140	80	6.3	19.71	25.11	619.55	256.91	4.97	3.20	88.51	64.23	111.47	75.34
140x80x8.0	140	80	8.0	24.33	30.99	735.24	302.12	4.87	3.12	105.03	75.53	134.68	90.67
145x82x4.0	145	82	4.0	13.43	17.11	476.35	196.94	5.28	3.39	65.70	48.03	80.82	54.53
145x82x4.8	145	82	4.8	15.92	20.28	555.16	228.50	5.23	3.36	76.57	55.73	94.93	63.93
145x82x5.0	145	82	5.0	16.53	21.06	574.05	236.02	5.22	3.35	79.18	57.56	98.35	66.20
145x82x5.4	145	82	5.4	17.74	22.60	610.85	250.59	5.20	3.33	84.26	61.12	105.06	70.66
150x100x4.0	150	100	4.0	13.62	17.35	509.32	191.98	5.42	3.33	67.91	48.00	83.98	54.35
150x100x5.0	150	100	5.0	16.77	21.36	614.04	230.03	5.36	3.28	81.87	57.51	102.22	65.98
150x100x6.0	150	100	6.0	19.81	25.23	710.20	264.42	5.31	3.24	94.69	66.11	119.39	76.86
150x100x6.3	150	100	6.3	20.70	26.37	737.41	274.06	5.29	3.22	98.32	68.51	124.34	79.98
150x100x8.0	150	100	8.0	25.59	32.59	877.81	322.94	5.19	3.15	117.04	80.74	150.57	96.43
150x100x10	150	100	10.0	30.95	39.43	1014.05	368.81	5.07	3.06	135.21	92.02	177.64	113.17
150x100x12	150	100	12.0	35.90	45.74	1120.74	403.26	4.95	2.97	149.43	100.82	200.72	127.21
150x100x12.5	150	100	12.5	37.08	47.23	1143.01	410.23	4.92	2.95	152.40	102.56	205.89	130.31
160x80x4.0	160	80	4.0	14.25	18.15	597.71	203.54	5.74	3.35	74.71	50.89	92.86	57.39
160x80x5.0	160	80	5.0	17.55	22.36	721.69	244.11	5.68	3.30	90.21	61.03	113.15	69.73
160x80x6.0	160	80	6.0	20.75	26.43	836.01	280.89	5.62	3.26	104.50	70.22	132.31	81.30
160x80x6.3	160	80	6.3	21.69	27.63	868.46	291.21	5.61	3.25	108.56	72.80	137.84	84.63
160x80x8.0	160	80	8.0	26.84	34.19	1036.68	343.77	5.51	3.17	129.59	85.94	167.27	102.19
160x80x10	160	80	10.0	32.52	41.43	1201.74	393.48	5.39	3.08	150.22	98.37	197.85	120.17
160x80x12.5	160	80	12.5	39.04	49.73	1360.95	439.03	5.23	2.97	170.12	109.76	230.12	138.74
172x92x4.0	172	92	4.0	15.75	20.07	783.54	297.66	6.25	3.85	91.11	64.71	112.10	72.79
172x92x4.8	172	92	4.8	18.71	23.83	917.13	346.91	6.20	3.82	106.64	75.41	132.07	85.61
172x92x5.0	172	92	5.0	19.43	24.76	949.37	358.72	6.19	3.81	110.39	77.98	136.94	88.72
172x92x5.4	172	92	5.4	20.88	26.60	1012.47	381.74	6.17	3.79	117.73	82.99	146.54	94.85
180x100x4	180	100	4	16.76	21.35	926.04	373.89	6.59	4.18	102.89	74.78	125.88	84.02

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Table 2 (Continued)

180x100x5.0	180	100	5.0	20.69	26.36	1124.20	451.77	6.53	4.14	124.91	90.35	154.01	102.59
180x100x6.0	180	100	6	24.52	31.23	1309.61	523.83	6.48	4.10	145.51	104.77	180.82	120.21
180x100x6.3	180	100	6.3	25.65	32.67	1362.79	543.34	6.46	4.08	151.42	108.87	188.61	125.32
180x100x8	180	100	8	31.87	40.59	1643.36	651.30	6.36	4.01	182.60	130.26	230.58	152.70
180x100x10	180	100	10	38.80	49.43	1929.60	757.94	6.25	3.92	214.40	151.59	275.27	181.59
180x100x12	180	100	12	45.32	57.74	2170.58	845.29	6.13	3.83	241.18	169.06	315.03	207.01
180x100x12.5	180	100	12.5	46.89	59.73	2224.02	864.29	6.10	3.80	247.11	172.86	324.21	212.84
200x100x4.0	200	100	4.0	18.01	22.95	1200	411	7.23	4.23	119.97	82.16	148.03	91.70
200x100x5.0	200	100	5.0	22.26	28.36	1459	497	7.17	4.19	145.93	99.39	181.36	112.09
200x100x6.0	200	100	6.0	26.40	33.63	1703	577	7.12	4.14	170.33	115.38	213.25	131.49
200x100x6.3	200	100	6.3	27.63	35.19	1774	600	7.10	4.13	177.36	119.95	222.54	137.13
200x100x8.0	200	100	8	34.38	43.79	2146	719	7.00	4.05	214.62	143.84	272.76	167.42
200x100x10	200	100	10	41.94	53.43	2531	839	6.88	3.96	253.10	167.85	326.69	199.59
200x100x12.5	200	100	12.5	50.81	64.73	2934	961	6.73	3.85	293.39	192.13	386.43	234.71
200x120x4.0	200	120	4.0	19.27	24.55	1353	618	7.43	5.02	135.34	102.94	163.71	115.44
200x120x5.0	200	120	5.0	23.83	30.36	1649	750	7.37	4.97	164.94	125.02	200.86	141.44
200x120x6.0	200	120	6.0	28.29	36.03	1929	874	7.32	4.93	192.92	145.72	236.53	166.33
200x120x6.3	200	120	6.3	29.60	37.71	2010	910	7.30	4.91	201.00	151.67	246.94	173.58
200x120x8.0	200	120	8.0	36.89	46.99	2441	1099	7.21	4.84	244.13	183.15	303.48	212.81
200x120x10	200	120	10.0	45.08	57.43	2892	1293	7.10	4.75	289.23	215.54	364.69	255.01
200x120x12	200	120	12.0	52.86	67.34	3285	1459	6.98	4.66	328.48	243.20	420.28	293.06
200x120x12.5	200	120	12.5	54.74	69.73	3374	1497	6.96	4.63	337.40	249.42	433.31	301.93
220x140x4.0	220	140	4.0	21.78	27.75	1893	948	8.26	5.84	172.05	135.38	206.34	151.67
220x140x5.0	220	140	5.0	26.97	34.36	2313	1155	8.21	5.80	210.31	165.03	253.72	186.30
220x140x6.0	220	140	6.0	32.05	40.83	2714	1352	8.15	5.75	246.72	193.09	299.44	219.64
220x140x6.3	220	140	6.3	33.56	42.75	2830	1408	8.14	5.74	257.3	201.21	312.84	229.39
220x140x8.0	220	140	8.0	41.91	53.39	3456	1712	8.05	5.66	314.19	244.60	385.99	282.52
240x120x4.0	240	120	4.0	21.78	27.75	2111	725	8.72	5.11	175.89	120.89	216.01	134.00
240x120x5.0	240	120	5.0	26.97	34.36	2580	882	8.67	5.07	214.97	147.08	265.57	164.44
240x120x6.0	240	120	6.0	32.05	40.83	3026	1030	8.61	5.02	252.16	171.74	313.39	193.69
240x120x8.0	240	120	8.0	41.91	53.39	3852	1300	8.49	4.93	320.99	216.66	403.86	248.65
250x150x5.0	250	150	5.0	30.11	38.36	3304	1508	9.28	6.27	264.33	201.06	319.75	225.47
250x150x6.0	250	150	6.0	35.82	45.63	3886	1768	9.23	6.22	310.84	235.78	378.03	266.27
250x150x6.3	250	150	6.3	37.52	47.79	4055	1844	9.21	6.21	324.40	245.86	395.15	278.24
250x150x8.0	250	150	8.0	46.94	59.79	4972	2250	9.12	6.13	397.78	300.06	489.04	343.69
250x150x10	250	150	10	57.64	73.43	5960	2683	9.01	6.04	476.82	357.72	592.74	415.64
250x150x12	250	150	12	67.93	86.54	6853	3068	8.90	5.95	548.22	409.08	689.27	482.24
250x150x12.5	250	150	12.5	70.44	89.73	7061	3157	8.87	5.93	564.90	420.98	712.29	498.07
260x180x5.0	260	180	5.0	33.25	42.36	4121	2350	9.86	7.45	317.03	261.06	377.43	294.01
260x180x6.0	260	180	6.0	39.59	50.43	4856	2763	9.81	7.40	373.53	307.05	446.86	347.86
260x180x6.3	260	180	6.3	41.47	52.83	5071	2884	9.80	7.39	390.04	320.46	467.31	363.70
260x180x8.0	260	180	8.0	51.96	66.19	6239	3538	9.71	7.31	479.90	393.12	579.81	450.74
260x180x10	260	180	10	63.92	81.43	7510	4244	9.60	7.22	577.65	471.58	704.95	547.27
260x180x12	260	180	12	56.63	72.14	2650	3188	6.06	6.65	331.28	354.26	401.79	435.99
260x180x12.5	260	180	12.5	78.29	99.73	8946	5035	9.47	7.11	688.14	559.43	850.59	659.21
300x100x6.0	300	100	6.0	35.82	45.63	4777	842	10.23	4.30	318.45	168.47	411.41	187.89
300x100x6.3	300	100	6.3	37.52	47.79	4984	877	10.21	4.28	332.26	175.34	429.98	196.16

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Table 2 (Concluded)

300x100x8.0	300	100	8	46.94	59.79	6102	1059	10.10	4.21	406.82	211.72	531.71	241.02
300x100x10	300	100	10	57.64	73.43	7301	1246	9.97	4.12	486.70	249.19	643.79	289.59
300x100x12	300	100	12	67.93	86.54	8375	1406	9.84	4.03	558.36	281.26	747.78	333.73
300x100x12.5	300	100	12.5	70.44	89.73	8625	1442	9.80	4.01	575.02	288.48	772.53	344.09
300x150x6.0	300	150	6.0	40.53	51.63	6074	2080	10.85	6.35	404.90	277.28	499.61	309.47
300x150x6.3	300	150	6.3	42.46	54.09	6343	2169	10.83	6.33	422.84	289.25	522.50	323.50
300x150x8.0	300	150	8.0	53.22	67.79	7808	2654	10.73	6.26	520.53	353.88	648.51	400.49
300x150x10	300	150	10	65.49	83.43	9404	3174	10.62	6.17	626.93	423.16	788.79	485.64
300x150x12	300	150	12	77.35	98.54	10865	3641	10.50	6.08	724.35	485.45	920.58	565.04
300x150x12.5	300	150	12.5	80.25	102.23	11210	3750	10.47	6.06	747.33	499.97	952.21	584.01
300x200x6.0	300	200	6.0	45.24	57.63	7370	3962	11.31	8.29	491.35	396.22	587.81	446.05
300x200x6.3	300	200	6.3	47.41	60.39	7701	4138	11.29	8.28	513.43	413.81	615.01	466.60
300x200x8.0	300	200	8.0	59.50	75.79	9514	5097	11.20	8.20	634.24	509.70	765.31	579.96
300x200x10	300	200	10	73.34	93.43	11507	6144	11.10	8.11	767.15	614.43	933.79	706.69
300x200x12	300	200	12	86.77	110.54	13355	7107	10.99	8.02	890.33	710.71	1093	826.36
300x200x12.5	300	200	12.5	90.06	114.73	13795	7335	10.97	8.00	919.64	733.50	1132	855.18
350x250x6.0	350	250	6.0	54.66	69.63	12457	7458	13.38	10.35	711.85	596.68	842.58	670.83
350x250x6.3	350	250	6.3	57.30	72.99	13028	7797	13.36	10.34	744.45	623.79	882.12	702.21
350x250x8.0	350	250	8.0	72.06	91.79	16170	9659	13.27	10.26	924.0	772.7	1102	876.2
350x250x10	350	250	10	89.04	113.43	19672	11724	13.17	10.17	1124.1	937.9	1350	1073
350x250x12	350	250	12	105.61	134.54	22967	13656	13.07	10.07	1312	1092	1587	1260
350x250x12.5	350	250	12.5	109.69	139.73	23759	14119	13.04	10.05	1358	1129	1645	1306
350x250x16.0	350	250	16	137.51	175.18	28955	17139	12.86	9.89	1655	1371	2031	1610
400x200x8.0	400	200	8.0	72.06	91.79	19195	6572	14.46	8.46	959.8	657.2	1184	733.6
400x200x10	400	200	10	89.04	113.43	23348	7951	14.35	8.37	1167	795.1	1451	896.7
400x200x12	400	200	12	105.61	134.54	27253	9231	14.23	8.28	1363	923.1	1706	1052
400x200x12.5	400	200	12.5	109.69	139.73	28191	9535	14.20	8.26	1410	953.5	1768	1090
400x200x16	400	200	16	137.51	175.18	34339	11507	14.00	8.10	1717	1151	2182	1339
400x300x8.0	400	300	8.0	84.62	107.79	25343	16336	15.33	12.31	1267	1089	1498	1233
400x300x10	400	300	10	104.74	133.43	30955	19921	15.23	12.22	1548	1328	1841	1514
400x300x12	400	300	12	124.45	158.54	36288	23314	15.13	12.13	1814	1554	2172	1785
400x300x12.5	400	300	12.5	129.31	164.73	37579	24133	15.10	12.10	1879	1609	2252	1851
400x300x16	400	300	16	162.63	207.18	46143	29547	14.92	11.94	2307	1970	2797	2295
500x300x8.0	500	300	8.0	97.18	123.79	43150	19748	18.67	12.63	1726	1317	2077	1466
500x300x10	500	300	10	120.44	153.43	52867	24127	18.56	12.54	2115	1608	2558	1804
500x300x12	500	300	12	143.29	182.54	62169	28294	18.45	12.45	2487	1886	3024	2130

(Page 7, Annex A) — Insert the following new Annex B after Annex A:

ANNEX B
(Clause 11.1)

Thickness range of Hollow Steel Section	Mass of zinc Coating (g/m²), <i>Min</i>	Coating Thickness (Microns), <i>Min</i>	Average of 5 Thickness readings (Microns), <i>Min</i>
5 mm and over	610	73	86
Under 5 mm, but not less than 2 mm	460	55	65

(MTD 19)

Publication Unit, BIS, New Delhi, India